



Credit: Chelsea Thompson, NOAA

USOS Monthly Meeting #5

May 22, 2024

Next meeting:

THURSDAY June 20, 1pm Mountain Time (Maybe??)

To be added to email list: email caroline.womack@noaa.gov

Agenda

- Campaign updates and status
 - USOS Mobile Lab – Carrie Womack
 - USOS Twin Otter – Sunil Baidar
 - SLC-SOS – Emily Fischer
 - MEEPC – John Lin
- Current status of instruments
- Additional measurements
 - Drone-based O₃ profiles – Randy Martin
- Forecasting plans + discussion of needs – Siyuan Wang

USOS Mobile Lab

- Van delivery from contractor is delayed ~4 weeks. We still anticipate an on-time campaign.
- Mobile Lab HCHO instrument from EPA is now unavailable. We are currently working to produce an alternative.

S	M	T	W	Th	F	S
MAY 19	20	21	22	23	24 	25
26	27 Memorial day	28 Outfitting	29 AGES+ meeting	30	31	JUNE 1
2	3	4	5	6	7	8
9	10 Middle Rack: NOy	11	12	13	14	15
16	17 Front, rear racks: CIMS, PTR-MS, iWAS	18	19	20	21	22
23	24 Testing	25	26	27	28	29
30	JULY 1 Test drives, with TO	2	3	4 July 4th	5	6
7	8 Ship Hazmat	9	10	11	12	13
14 Leave for SLC	15 Campaign start	16	17	18	19	20

USOS Twin Otter Schedule

NOAA Twin Otter

S	M	T	W	T	F	S
JUN 23	24	25	26	27	28	29
30	JUL 1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	AUG 1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24

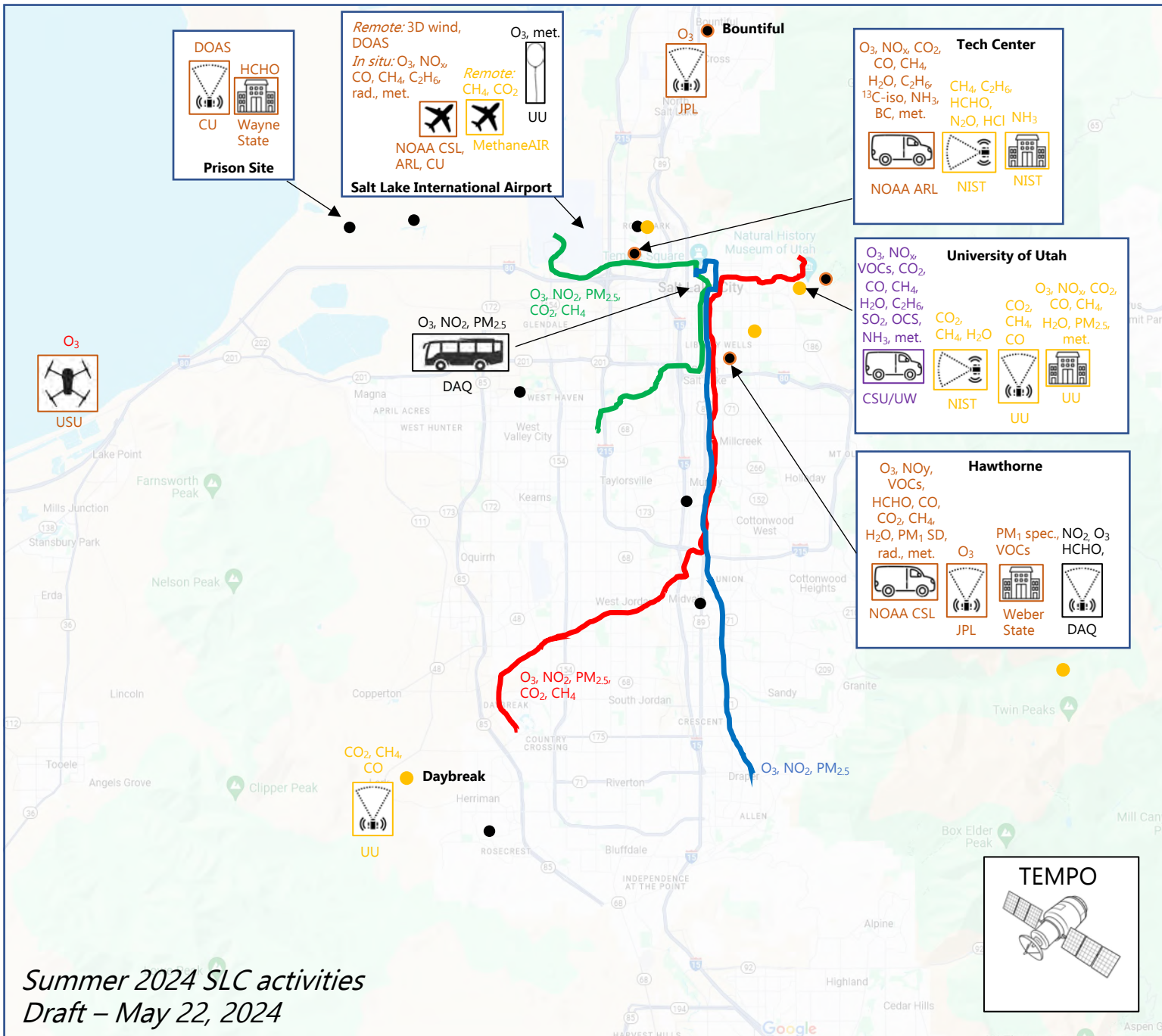
- Installation/deinstallation in Broomfield, CO
- Research flights in Denver-Julesburg, CO
- EMMA in Broomfield, CO
- Transit to/from Utah
- Research flights in Salt Lake City

FBO: Atlantic Aviation at SLC

- EMMA in Broomfield, CO (July 15 -20)
- Transit to/from Salt Lake City, UT (July 21 / Aug 7)
- Research flights in Salt Lake City, UT (July 21 – Aug 7)

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Summer 2024 SLC activities
Draft – May 22, 2024

USOS	SLC-SOS	MEEPC	DAQ
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July 15 – Aug 9 or 18	Aug 1 - 30	Aug 1 – 30 or continuous	Continuous
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- DAQ monitoring (Met., PM_{2.5}, O₃, NO_x)
- Enhanced DAQ monitoring (VOCs, HCHO, SO₂, Ceilometer, HCl)
- UCCON monitoring (CO₂, CH₄)
- ✈ Aircraft
- 🚚 Mobile lab
- 📡 Upward-facing remote sensing
- 📡 Long-path remote sensing
- 🏠 Ground-based in-situ measurements
- 🚆 UTA TRAX (approximate routes)
- 🚌 UTA Electric bus fleet
- 📡 Daily radiosonde/ozonesonde launches
- 🚁 Drone